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CLEAN CLAIMS

Sub. (1)

1. (Amended) A packaging machine for loading a plurality of articles into a carton which mechanism comprises carton erecting means for part erecting said carton to define a first article receiving cell, means for selecting a group of articles comprising at least two articles, means for separating said grouped articles from an adjacent like group of articles, means for loading said grouped articles into said first article receiving cell through an open end thereof in the packaged carton and a means for completing the construction of the carton characterised in that said carton erecting means comprises complementary die members, each said die member being mounted to a rotating wheel wherein each said complementary die member is adapted to inter engage when a carton blank is positioned between the two members, such that said die members cause the blank to be folded to define said article receiving cells, one of said complementary die members having a protruding portion extending from a working face thereof and the other of said complementary die members having a recessed portion adapted to receive said protruding portion, when said blank is placed on said receiving member the protruding portion forces part of the blank into said receiving portion.

2. The packaging machine as claimed in claim 1 wherein said carton erecting means comprises a device which effects a

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change in configuration of the carton from an inoperative
configuration in which said first article receiving cell is
5 formed to receive said grouped articles.

4. (Twice Amended) The packaging machine as claimed in
claim 1, wherein said selecting means comprises a plurality of
channels mounted on an endless chain which said channels are
grouped to correspond to the number of articles to be placed
5 into said first article receiving cell and wherein the
channels are adapted to substantially align each said article
with said first article receiving cell.

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5. The packaging machine as claimed in claim 4 wherein
the carton comprises a second article receiving cell formed by
said carton erecting means in a spaced relationship to said
first article receiving cell wherein said grouped channels
5 comprise at least two channels in substantially parallel
relationship to one another wherein said at least two channels
are adapted to diverge into a plurality of sub-groups wherein
each said sub-group is spaced to align an article held in each
said sub-group with one of said articles receiving cells.

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6. (Amended) The packaging machine as claimed in claim
1 further comprising a conveyor including means to convey the

232 articles and means to regulate the flow of articles to enable the articles to be aligned with each said carton.

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72 8. (Twice Amended) A mechanism for forming a carton including a pair of article receiving cells, the method comprising complementary die members, each said die member being mounted to a rotating wheel wherein each said
5 complementary die member is adapted to inter engage when a blank is positioned between the two members, such that said die members cause the blank to be folded to define said article receiving cells, one of said complementary die members having a protruding portion extending from a working face
10 thereof and the other of said complementary die members having a recessed portion adapted to receive said protruding portion, when said blank is placed on said receiving member the protruding portion forces part of the blank into said receiving portion.

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72 4 10. (Amended) A mechanism for grouping a plurality of articles which mechanism comprising an endless series of channels along which articles may be transferred into a plurality of article receiving cells of a carton wherein the
5 channels are organised into groupings whereby each grouping corresponds to a given number of articles to be loaded in the carton, the channels are adapted to be substantially parallel

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10 to one another and then diverge into sub-groupings wherein each said sub-group is spaced to align an article held in each said sub-group with one of said article receiving cells corresponding to each one of the cells of each carton and wherein the sub-groupings are each substantially parallel to one another to provide in line parallel access to the cells.

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5 12. (Amended) A mechanism for causing a label affixed to an article to be oriented to a predetermined display position wherein the article includes a portion protruding outwardly of the article in a fixed position relative said label, wherein
10 the mechanism comprises support means adapted to support an article, orientation means adapted to cause the article to rotate in the support means until the protruding portion is restrained by abutment means formed in said support means, said support means comprises a channel including a support
10 surface to retain part of the article within said channel, said support surface substantially corresponding to the exterior surface of said retained part of the article.

13. The mechanism as claimed in claim 12 wherein one edge of the label affixed to the article overlays an opposed edge of said label to define said protruding portion.

16. (Twice Amended) The mechanism as claimed in claims 12, wherein the orientation means comprises a single elongate member connected to resilient means, wherein said elongate member is adapted to abut a portion of said article as said support means is moved in a substantially parallel plane to said elongate member such that a tangential force is applied to said abutting portion of the article to cause the article to rotate.

17. The mechanism as claimed in claim 16 wherein said resilient means is adapted to reduce said tangential force when said protruding portion is restrained by said abutment means.

18. (Amended) The mechanism as claimed in claim 12, wherein the abutment means is formed from an upper edge of said channel.

19. (Amended) A packaging machine as claimed in claim 1, wherein each article includes a label affixed thereto and further includes a portion protruding outwardly of the article in a fixed position relative to said label, the packaging machine further comprising support means adapted to support an article, orientation means adapted to cause the article to rotate in the support means until the protruding position is

restrained by abutment means formed in said support means to
orient said group of articles prior to loading the articles
10 into the carton.

20. (Amended) A method of orienting to a predetermined
display position wherein an article includes an outwardly
protruding portion in a fixed position relative a label, said
label being affixed to the article, the method comprising the
5 steps of supporting the article in support means during
forward movement, rotating the article within the support
means until the protruding portion abuts a portion of the
support means and retaining the article in its desired
orientation for loading into a carton.